

BASIC PROCEDURES FOR DECK CONSTRUCTION - WILLIAMSON COUNTY, TN

The structural requirements will depend on the size of the deck you plan to build. The size of the framing members will be determined by this. Guardrails on the deck and steps will largely depend on how high the finished deck is above final grade.

- When fastening a deck to a house, the deck cannot be simply fastened to the brick veneer on the house. It is to be fastened to the structural components of the house. Brick veneer is nonstructural.
- 2. Footings are required to have dimensions of at least 16 inches by 16 inches with a minimum height of eight (8) inches of concrete <u>under</u> the posts. The pier holes are to be dug down to undisturbed soil. Larger piers may be required if there is possibility of being built in with wall and roof systems. We will do an inspection of pier footings <u>BEFORE</u> concrete is placed, just as in all other footings.
- 3. Frequency of piers/posts will be determined by the size and span of the band/header boards of the deck along with the tributary loading factors of the floor system.
- 4. Maximum spans of floor joists will be determined by the size and species of lumber used for such joists.
- 5. Guardrails will be required if in any area the deck is more than 30 inches above finished grade (average measured at a point not more than 6 feet from the structure). Guardrails are to be a minimum of 36 inches in height from the decking with intermediates (spindles, etc.) spaced so that a 4-inch sphere cannot pass between them. Steps serving a deck more than 30 inches in height will require guardrails on open sides of steps. In addition, a "graspable handrail" shall be located between 34 and 38 inches above the leading edge of the treads.
- 6. If the deck is less than 30 inches above finished grade, rails are at your discretion. However, if it requires more than 3-risers (steps) to get onto the deck, a graspable handrail shall be required on at least one side of the steps, mounted between 34 and 38 inches above the leading edge of the treads. (Handrails are graspable rails used for stability when ascending or descending steps.) Intermediates (spindles, etc.) are not required for handrails, while they are a vital part of guardrails.
- 7. Steps are to be designed and installed so that the rise of the treads does not exceed 7 ¾ inches and the tread width is NOT less than 10 inches measured from nose to nose. All steps are to be uniform in tread and rise. Tread nosings shall not exceed 1 ¼ inches.
- 8. A building permit is required prior to starting any work. Please refer to the form "Steps In Obtaining A Building Permit" on how to make application for a building permit or you may contact the Williamson County Planning Dept. at 615-790-5725 for more information.